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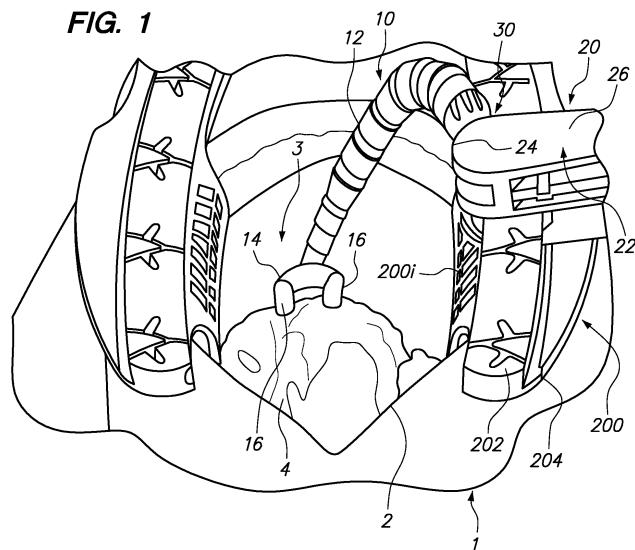
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(54) SURGICAL ORGAN STABILIZER INSTRUMENTS

(57) A surgical instrument includes a mount body, an arm, a joint, and a tool; the mount body configured to mount to a retractor, a bottom surface of the mount body facing the retractor when mounted, a front edge of the mount body running at an angle to the bottom surface; the arm pivotally connected on a proximal end of the arm via the joint to or along the front edge of the mount body; the tool connected to a distal end of the arm; the arm

configured to be movable between a plurality of positions relative to the mount body and to be temporarily lockable in these positions; and the joint configured such that a proximal portion of the arm extending from and adjacent the mount body is pivotable to and temporarily lockable in a position substantially perpendicular to the mount body along portions of the front edge.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number

EP 20 18 5214

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
10 X	US 2002/077532 A1 (GANNOE JAMES R [US] ET AL) 20 June 2002 (2002-06-20)	1-3, 10, 12, 13, 15-17	INV. A61B17/02 A61B90/57
15 Y	* figures 20-34 *	3, 11-14	
A	* paragraphs [0086], [0092], [0008], [0099] *	4-9	ADD. A61B17/30
20 Y	----- US 2002/058957 A1 (FARASCIONI DAVID [US]) 16 May 2002 (2002-05-16) * figures 50-50B * * paragraphs [0159] - [0161] *	3	
25 X	----- US 2003/195393 A1 (GOODMAN JACK [US] ET AL) 16 October 2003 (2003-10-16)	1-3, 15-17	
A	* figures 1A, 2A, 2C * * paragraph [0045] *	4-9	
30 Y	----- US 4 346 711 A (AGDANOWSKI RONALD T ET AL) 31 August 1982 (1982-08-31) * column 1, lines 13-24 * * figure 1 *	12-14	TECHNICAL FIELDS SEARCHED (IPC)
35 Y	----- EP 0 333 470 A2 (SHERWOOD MEDICAL CO [US]) 20 September 1989 (1989-09-20) * figure 1 * * column 8, lines 40-43 *	14	A61B
40 Y	----- US 2003/204129 A1 (JAHNS SCOTT E [US] ET AL) 30 October 2003 (2003-10-30) * paragraphs [0020] - [0021] *	12	
45 Y	----- US 2004/002625 A1 (DIETZ TIMOTHY [US] ET AL) 1 January 2004 (2004-01-01) * page 11; figure 1 *	11	
50 2	The present search report has been drawn up for all claims		
55	Place of search Munich	Date of completion of the search 11 June 2021	Examiner Erbel, Stephan
CATEGORY OF CITED DOCUMENTS			
X	: particularly relevant if taken alone		
Y	: particularly relevant if combined with another document of the same category		
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P	: intermediate document		
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



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LACK OF UNITY OF INVENTION
SHEET B

Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

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1. claims: 1-10, 15-17

A surgical instrument comprising an arm pivotally connected to a mount base via a joint, directed at mechanical features of the joint.

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2. claims: 11-14

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A surgical instrument comprising an arm pivotally connected to a mount base via a joint, directed at features concerning details of an aspiration means associated with the instrument.

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ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

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5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

11-06-2021

10	Patent document cited in search report	Publication date		Patent family member(s)	Publication date
	US 2002077532 A1	20-06-2002	US	6994669 B1	07-02-2006
			US	2002077532 A1	20-06-2002
15	US 2002058957 A1	16-05-2002	AU	9486298 A	12-04-1999
			EP	1052926 A1	22-11-2000
			ES	2316170 T3	01-04-2009
			US	5976080 A	02-11-1999
20			US	6306085 B1	23-10-2001
			US	2002058957 A1	16-05-2002
			WO	9915069 A2	01-04-1999
25	US 2003195393 A1	16-10-2003	US	2003195393 A1	16-10-2003
			US	2005101840 A1	12-05-2005
			US	2008108878 A1	08-05-2008
30	US 4346711 A	31-08-1982		NONE	
35	EP 0333470 A2	20-09-1989	AT	84423 T	15-01-1993
			CA	1306160 C	11-08-1992
			DE	68904332 T2	06-05-1993
			EP	0333470 A2	20-09-1989
			ES	2037950 T3	01-07-1993
			HK	133797 A	24-10-1997
			JP	H0249660 A	20-02-1990
			JP	H0614958 B2	02-03-1994
			US	4857042 A	15-08-1989
40	US 2003204129 A1	30-10-2003	AU	2003222175 A1	10-11-2003
			EP	1502167 A1	02-02-2005
			US	2003204129 A1	30-10-2003
			US	2005017021 A1	27-01-2005
			US	2008009679 A1	10-01-2008
45			WO	03091814 A1	06-11-2003
50	US 2004002625 A1	01-01-2004	US	2004002625 A1	01-01-2004
55			US	2005096500 A1	05-05-2005